

controlling valve until the preset time has elapsed. Once the pressure in the two sub chambers of the controlling valve are equalized by this process, the diaphragm returns to its closed position and seals the opening between the two sub chambers of the controlling valve, stopping the ejector from operating. Said delayed closing of the controlling valve via the timing control needle valve, allows the sump pit to empty as required.

Abstract of the Disclosure

A machine for removing sump pit water with sump ejector mounted at the same elevation as the discharge pipe, eliminating back pressure which reduces pumping rates, sump ejector system with an adjustable timing control allowing the pump to run for various lengths of time, a independent discharge line, sump ejector with an independent suction line, sump ejector with an internal check valve, sump ejector with an atmospheric vent preventing backflow, and sump ejector with integral backflow prevention device.